Climatological Data for July, 1910. DISTRICT No. 11, CALIFORNIA.

Prof. ALEXANDER G. McADIE, District Editor.

GENERAL SUMMARY.

The most noticeable feature of the weather for the month of July was the prolonged dry period. While rainfall decreases during the summer months on the Pacific slope, and there is a well-marked rainless condition over most of California, ordinarily these months are marked by occasional showers, not in themselves heavy, but having a cumulative value sufficient for the agricultural needs of the section. The amounts may vary from an inch in the north coast counties of California to 3 or 4 inches in the coast section above the California line. It may be said that approximately from 3 to 5 per cent of the annual rainfall occurs during the month of July. While this is not a great quantity, the total absence of even this amount is noteworthy as indicating a seasonal condition out of the ordinary. And this condition apparently existed over a wide area, the departures from normal being frequently more marked elsewhere than in California.

The departures from the normal for the entire State of California, as given elsewhere, do not tell the whole story. Owing to afternoon thundershowers in the mountains and in the southern coast counties the section average is slightly above that of a normal month, while as a matter of fact it was an abnormal season; and the sections which usually report light showers, were dry; while the mountain sections which usually are dry, with afternoon thunderstorms without much rain, showed during the present month rainfall, which while light, was still sufficient to bring the amount above the normal.

The month was also noticeable because of its comparatively low temperature for midsummer. The first week was abnormally cold and afternoon temperatures in the Great Valley did not exceed 90°. The last week of the month was also cold, although in the interior, afternoon temperatures were normal. Warm weather prevailed from about the 6th to the 15th, afternoon temperatures in the Great Valley running well up to 100° and higher, and again from the 18th to the 25th. In the coast sections temperatures continued low throughout the month.

The feature of most interest from an engineering point of view is the absence of sufficient water power. As far back as April the reports of this section foreshadowed a scarcity of water by the end of July, unless unlooked for precipitation occurred. The snow cover in the mountains at the beginning of summer was neither deep nor extensive. By the 1st of July snow was to be found only on the high peaks. It is probably fair to say that at the close of July there was less snow in sight than during any previous year at the same time since the country has been settled. This condition is reflected in the stages of the rivers. Apparently the run-off is less than during any July of which there is a record. Travel through the mountains opened early and mountain people report passes free from snow and water courses with little water in them, conditions previously unknown. Aside from the economic aspect, the absence of the usual floods from the melting of the snow and the marked deficiency in run-off this summer are interesting because they furnish a clear illustration of marked variation in water supply not caused by any artificial condition, such as deforestation or settlement of areas, but simply due to natural causes. Press reports confirm the river reports, showing an unusual condition of the navigable waters of the State. Sand bars have been formed in the Sacramento River, interfering with navigation. At Sacramento the river was lower than ever before reported during the month of July. In the San Joaquin watershed at some of the river gaging stations the water is but a few inches in depth.

TEMPERATURE.

The mean temperature for the State was 75.5°, or slightly below normal. As previously stated, this mean value gives no indication of the unusually cool condition prevailing in the coast counties during nearly the entire month. On the other hand, afternoon temperatures in the interior, while not higher than in previous Julys, continued at a high point for a longer period. The mean values for California in recent years are as follows: 1897, 74.5°; 1898, 81.4°; 1899, 77.9°; 1900, 75.9°; 1901, 76.0°; 1902, 72.8°; 1903, 71.2°; 1904, 72.2°; 1905, 74.8°; 1906, 76.8°; 1907, 73.1°; 1908, 76.4°; 1909. 71.2°; 1910, 75.5°.

The highest temperature recorded was 119° at Mammoth Tank on the 20th. Other high temperatures were: 118° at Heber on the 7th and at Needles on the 9th; 117° at Indio on the 7th; and 116° at Blythe, Calexico and Wasco, and 115° at Bagdad, Brawley, Orleans, and Shasta. It will be noticed that with the exception of Shasta the high temperatures are reported from stations in the southeastern counties. The temperatures reported were not as high as those occurring on May 30, this year, when at Blythe, Heber, and Indio 121° was reported.

The lowest temperature was 22° at Macdoel on the 3d. The highest monthly mean was 96.8° at Bagdad and the lowest 52° at Point Reyes Light.

From an agricultural standpoint temperatures during July were favorable, hastening the ripening of fruit.

PRECIPITATION.

The section average was 0.10 of an inch, or .02 of an inch above the normal. The amounts for previous years are as follows: 1897, .01 of an inch; 1898, trace; 1899, trace; 1900, 0.03; 1901, 0.01; 1902, 0.70; 1903, 0.03; 1904, 0.09; 1905, 0.01; 1906, 0.04; 1907, 0.03; 1908, 0.04; 1909, 0.05; 1910, 0.10. The greatest monthly amount was at Campo, 3.44 inches. More than half the stations in the State reported no rainfall. In the northern coast counties the absence of rain was noticeable. For example, normal rainfall at Eureka for the month of July is 0.09 of an inch. There was light rain during the first week of July, but none during the succeeding weeks, and the seasonal from March 1 to July 31 shows a deficiency of nearly 75 per cent.

The precipitation was chiefly in the mountain sections and in the form of afternoon thunderstorms. The cooperative observer at Campo calls attention to the fact that the first Sonora clouds were about two weeks later than usual in appearing. He also states that it was the wettest month for several years in that section. There was a period of unsettled weather from the 17th to the 20th. Mountain rains were reported in the Sierra Madre, and on the 18th there were thundershowers along the southern coast. At Santa Ana, the home of the Rev. Alfred Quitu, in the Catholic French Colony at San Juan Capistrano, was struck by lightning and burned to the ground. The occupants, 3 in number, escaped uninjured. At Redlands there was a shower lasting 20 minutes with 0.38 inch rainfall. Some minor washouts occurred on the Salt Lake Railroad near Otis.

In the northern counties afternoon thunderstorms did some damage to stock near Sierraville on the 19th.

SNOWFALL.

Not since the country was first settled has there been so little snow in the mountains as now. The whole season has been one of deficient snowfall. For travel in the mountains, conditions have been excellent and pack trains have experienced no difficulty on account of snow. As anticipated, early in the season, it is a bad year for water. Unless the storms are unus-

usually early in the fall the water supply will be deficient to a marked degree.

EARTHQUAKES.

Alameda, July 27, two shocks, 11:30 and 11:35 a.m. At Berkley, light shocks occurred on the 20th and 26th. At Tamarack a light shock occurred at 8:45 p. m., 13th

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The Wiechert seismograph at Santa Clara College recorded an earthquake on July 2, from 5:15:54 p. m. to 5:18:24 p. m., with a maximum double amplitude of 2.5 mm. north and south; 2.6 mm. east and west, and 1 mm. vertical. On July 25 a disturbance was recorded at 9:41:20 a. m., ending 9:44:54, with amplitude 12.5 mm., north and south, 13 mm., east and west, and 2.5 mm. vertical. A faint shock was felt, the first movement from the west. It is worth noting that on July 26, in Japan, time not known, there was a great earthquake felt on the Island of Yezo (Hokkaido), the most northern island of the Japanese Empire.

MISCELLANEOUS NOTES.

Alturas.—The thunderstorm on the 14th gave 0.38 of an inch of rain in 10 minutes, and the one on the 19th gave 1.38 inch in an hour. Both local.—C. B. Towle.

Campo.—The first Sonora clouds were about two weeks behind time this year, appearing on the 13th and continued all through the month. Over 2 inches of rain fell in Laguna Valley, 6 or 12 miles east. Heavy rain fell on the 27th, some creeks running 10 feet of water. At San Felipe, to the north of this place, 2 inches fell in 20 minutes. It is the wettest month generally all over the mountain belt for many years.—Archibald Campbell.

Downieville.—Unusually hot weather for this altitude. Rivers lower than ever before known at this date.

La Porte.—The springs around here and the water in the water courses are lower this year than in many years past at this date.—Charles W. Hendel.

Sierra Madre.—On the 21st, when the thermometer was 104°, a sandstorm drifted up the valley and the temperature dropped 20° in about half an hour.—Miss A. E. Carter.

Sierraville.—A severe thunderstorm on the 19th; 150 head of sheep were killed by lightning near Gold Lake.

Tamarack.—A cloudburst occurred on the 19th, when 1.50 inch of rain and hail fell in 15 minutes at this station. Some cattle and sheep were lost and much damage done to the roads.—William Bennett.

Willows.—A beautiful display of ascending air currents through the far clouds at noon on the 28th, cirrus and cirrocumulus sheets of perpendicular lines extended below each cloud, and those of the center were of corkscrew shape. The air seemed full of bars where the clouds had disappeared.— $M.\ T.\ Harrington,\ jr.$

NOTES ON RIVER CONDITIONS IN THE SACRAMENTO AND SAN JOAQUIN VALLEYS DURING JULY, 1910.

Sacramento watershed.—All of the large streams in the Sacramento drainage basin fell slowly during July and carried less water than for any corresponding month of which there is an authentic record.

There has been a marked diminution in the run-off in the feeders of the main water courses throughout the Sacramento Valley, and some of the smaller mountain streams that heretofore flowed until well into the month of August, have become practically dry.

While the Sacramento, between Red Bluff and Redding is lower than for the past 5 years, the river between these points has fallen very slowly, there having been a range at Red Bluff of only 1 foot between the stage on June 1 and that of July 31, and only 0.4 foot between the first and last days of July. From Redding northward to the mouth of the Pitt River, the Sacramento is markedly below the July normal.

At Colusa the river was 1.5 foot lower than the low water of July, 1908, and 2.3 feet below the normal for the month, and at Knights Landing it was 1.2 foot below the low water of July, 1908, and over 2 feet below the normal for the month.

At Sacramento City the river was the lowest that has ever been recorded during the month in question, with an average stage of 1.3 foot below the previous lowest water during the month, and nearly 6 feet below the normal stage that has been maintained at this point in July during the past 10 years.

In the lower reaches of the Sacramento River, especially between Courtland and Collinsville, practically normal stages, with the usual fluctuations, due to tide action, have obtained.

In the Feather-Yuba territory the run-off of all streams diminished gradually during the month, and reports indicate that some of the smaller tributaries of the Yuba have practically ceased discharging. The average stage of the Yuba, at Marysville, was 6.5 feet, which is over 4 feet below the usual avearge for July and 1.4 foot below the previous lowest average for the month. The Feather, at Oroville, averaged 2 feet below the normal and nearly 1 foot lower than any stage previously recorded in July.

The American River, and all streams throughout its drainage basin, fell slowly but steadily. At Folsom it averaged 1.5 foot below the normal July stage, and 0.7 foot lower than the lowest ever previously recorded during the month.

Sand bars in the Sacramento River, near Sacramento City, have impeded navigation during the entire month, and the problem of removing these obstructions has been studied by some of the United States Engineer officials, who have visited this section for the purpose of observing the situation.

San Joaquin watershed.—All streams in this watershed continued to subside during the month, and in some cases the extreme summer low water stage has already been reached.

At Merced Falls the Merced River reached the zero mark on the gage on the 31st, and at Jacksonville, on the Tuolumne, the river was within 0.6 foot of the lowest stage ever before recorded. At Melones the Stanislaus was below the limits of the river gage and falling slowly. At Electra the Mokelumne reached the zero of the gage on the 28th, with indications that it will fall to a lower stage before the beginning of the rainy season:

There is still some water in the Calaveras River, but there is practically no discharge from this stream beyond the mouth of Mormon Slough, which is now dry between Bellota and the city of Stockton.

The San Joaquin itself has held up reasonably well below the mouth of the Calaveras. In the upper reaches of this stream, however, and especially above the mouth of the Merced River, it has been abnormally low, and during the month carried less water than for any July of which there is a record.—N. R. Taylor, Local Forecaster.

EVAPORATION AT LAKE ELEANOR.

Mr. Todd, of the Engineer Corps of the city of San Francisco, reports that during the month of July, 1910, the total evaporation at Lake Eleanor was 5.84 inches, divided very nearly into two-thirds and one-third, as the day and the night evaporation. The amounts were respectively, 3.89 and 1.95, with the night of June 30–July 1 omitted. If an average value be taken for the missing night, it would bring the monthly night evaporation up to 2.01 inches, and the total for the month 5.90 inches.

FROST FIGHTING.

Abstract of a paper by A. G. McAdie read at a meeting of orange and lemon growers at Pomona, Cal., June 28, 1910, by by A. B. Wollaber, Local Forecaster:

For 14 years a progressive campaign has been waged by fruit growers and Weather Bureau officials in California for the purpose of protecting citrus fruits from frost. Much satisfactory work has been accomplished and the whole problem of protection so developed that the question has ceased to be one of local interest, and has spread to other States, becoming one of national importance. If the general principles laid down are correct, they can be applied successfully in the case of crops other than citrus ones, due allowance being made for new and changed conditions. So far as known, all of the present methods of protecting crops had their origin in California.

Before considering the physical processes involved in the formation of frost, it may be well to recall the conditions last winter in the San Gabriel Valley and other sections of California south of the Tehachapi. At the close of December, 1909, there was a prospective yield of 36,000 car loads of citrus fruit, one-fifth of the crop being lemons. The low temperature of the first week in January, 1910, caused a loss of perhaps 25 per cent During the entire winter there was no failure on the part of Weather Bureau officials to give ample and urgent warnings of the impending frosts. This is mentioned because it is considered equivalent to half the battle won and shows what can be done in that direction.

It would probably repay the citrus fruit growers to purchase and install from 20 to 40 thermographs and hygrographs in the San Gabriel Valley alone. An instrument has been designed in the San Francisco weather office especially for the use of growers. It is the nature of a combined thermograph and hygrograph; but so arranged that the record ordinarily given as a relative humidity is given in terms of the weight of the water vapor present. Relative humidity is at best only a ratio and means various things for various temperatures. It is, therefore, an unreliable index and may prove misleading in determining the minimum temperature. The new instrument, by indicating the actual weight of water vapor present, probably affords a more reliable index of the actual conditions. Any variation in the weight of the water vapor can be read from the record, and thus the grower can with more certainty determine the need of protection and the amount of heat required to offset the probable fall in temperature. Experience has shown that single observations of the dew-point shortly before sunset can not be relied upon to furnish a true value of the minimum temperature likely to occur. A continuous record of the amount of water vapor present, or rather its complement, the deficiency from saturation, shows the grower to what extent he may depend upon the water vapor as a protective agency.

The frosts which did the damage last winter were those of December 19, 1909, and January 3, 4, 5, 6, 7 and 8, 1910. Studies of the conditions have been made and it appears that the air temperature at a point 6 feet above the ground averaged 24° F. (4° C.). The rate of fall after sunset, the time of minimum and the number of hours the temperature was below 32° cannot be given with precision.

Of course the condition of the tree plays a very important part. Every grower knows that a tree that is backward or not in a tender condition will show less injury than it would otherwise. And furthermore, the exposure of the chilled fruit to the sun's rays in the morning plays a most important part. It is as necessary to study the rise in temperature immediately following the frost as it is to study the fall.

In general, the typically dangerous temperature curve is one showing a nearly uniform rate of fall from early afternoon to midnight, a slight check about midnight and nearly constant temperature until 4 a.m. Then and until sunrise or a little after a drop of 2°, 3°, or 4°. Then a rise at the rate of 3° or more per hour.

The general campaign of frost fighting, as developed in California and now followed elsewhere, consists of—

- 1. Accurate advance information of the likelihood of frost.
- 2. Application of preventive means during critical hours.

3. Guarding the fruit from a too rapid warming.

Under the first head the fruit grower has now little more to do than to keep in touch by telephone with the nearest forecasting center. Frost is primarily a matter of air drainage. As a result of certain movements of low and high pressure areas and the displacement of the lower air, comparatively still, dust free conditions ensue. There is very little water vapor present and radiation from soil and plant is marked. The air circulation near the ground becomes stagnant. Air is a poor conductor of heat, and there is but little warming of the soil by direct conduction from below. In other words, the loss of heat is a maximum and the supply a minimum.

Under the second, large fires are not as effective as numerous small fires or heaters. Many of the latter, known as orchard heaters, now on the market, have proven their worth; but the ideal heater, it seems to us, is still to be devised. One is needed that will give heat in sufficient quantity and with a fan or blower, thoroughly to mix the lower air.

In all the devices now on the market attention has been given simply to the heating. Fuel of different kinds is used and for various crops there will be a difference in efficiency, depending upon the fuel used, cost of labor, etc.

It seems to the writer that all protective devices are based upon the three following principles: (1) heating, (2) covering, (3) ventilating.

Under the first, come all forms of fire baskets, oil pots, and orchard heaters. Under the second, cloth covers, lattice work, artificial cloud builders, smudge makers, and the new antifrost cover. Under the third head there should be devised suitable forms of blowers and air mixers.

THE DISPOSITION OF SMOKE.

By Alexander G. McAdie.

At a meeting of the American Chemical Society held in San Francisco during the second week in July, 1910, Dr. E. G. Cottrell, of the University of California, described in an illustrated lecture the work done by himself and others at the Selby Smelter, on San Francisco Bay, in precipitating smoke particles by the use of a high voltage direct electric current.

The air of cities where manufacturing plants of any size are established is, as is well known, vitiated by the outpouring smoke and products of imperfect combustion; from chimney stacks, which in many cases are not high enough to permit proper carrying away of the smoke. In some cities the nuisance has become so great and injury to health and porperty so apparent that antismoke ordinances have been enacted and are enforced.

Of late years, in connection with large smelters, much damage has been done to crops and animal life in the neighborhood, since in the treatment of sulphide ores, large volumes of sulphur dioxide fumes are set free.

In some of the older forms of smoke protectors, woolen bags were used; but these, as Doctor Cottrell shows, while effective in the case of blast furnace gases containing a small quantity of the sulphur compounds, are not altogether satisfactory where "the roaster and refinery fumes are so strong as to soon destroy the woolen bags." Also, the cost of the reinforced concrete bag house is high and the electric power consumption for the blower is as great as that required by the electrostatic method.

In the new process the charged gas particles are forced to a lead plate, precipitated and recovered as dilute sulphuric acid. The electrification of the gas is accomplished by means of an alternating current stepped up through a transformer to 40,000 volts and rectified by means of a synchronous motor, so adjusted that only the peak of the wave is utilized. The discontinuous direct current thus produced is discharged from an asbestos electrode suspended in the midst of the smoke, thereby removing the obnoxious gases.

Table 1.—Climatological data for July, 1910. District No. 11, California.

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| El Cajon Electra | San Diego | 725 | 11 | 82.7 | | 101 112 | 6† 20 | 47 50 | 4 48 | +6.00 | | 0.00 | 0.0 | ı Öj | 30 | 1 ! | 0 | | Cal. Gas & Electric Co. |
| Electra Elsinore Emigrant Gap | Riverside | 1,234 5,230 | 15 36 | | - 0.2 · + 9.3 | 111 90 | 21 28 | 45 59 | 2 22 | 0.09 0.00 | | 0.09 0.00 | 0, 0 0, 0 | | | 4 ' 0 i | | w. | |
| sacondido | San Diego | 657 | 16 | 74.0 | + 1.5 | 103 | 7 | 46 | 4†, 48 | 0.25 | + 0.25 | 0.14 | 0.0 | : 2 | | 21 | 0. | w. | A. R. Moon. U. S. Weather Bureau. |
| EurekaFarmington | San Joaquin | 111 | 24 31 | 54.7 80.4 | $\frac{-0.6}{+2.2}$ | 63 106 | 19 20 | 47 56 47 | 18 13 | . 0.00 | □ 0.00 | | 0, 0 0, 0 | | 0 | 0 j | | nw. nw. | Southern Pacific Co. |
| Folsom Fordyce Dam | Sacramento | 252 6 500 | 38 15 | 78.8 61.6 | + 2.2 - 3.1 | 110 85 | 181 | 47 32 | 4 47 | $\begin{bmatrix} 0.00 \\ 0.14 \end{bmatrix}$ | -0.01 -0.06 | 0.00 | 0, 0 0, 0 | | 28 24 | 7 | $\frac{2}{0}$. | s. sw. | F. O. Hutton. E. E. Roening. |
| outs Springs | Colusa | 1.650 | 6 | i 70.9 | | 102 | | 40 | 3 49 | T. | 0.00 | Т. | 0.0 | 0.7 | 31 | 0 | 0 | 1 | H. S. Green. U. S. Weather Bureau. |
| Fresno | Glenn | 624 | $\frac{23}{21}$ | 83.3 | +1.2 + 0.8 | 111 ! | 9 | 51 58 | 3 | . ' O. OO | 0.00 | 0.00 | 0, 0 0, 0 | 0 | 26 . 31 | 5 | | w. s. | Southern Pacific Co. |
| Galt Georgetown | Sacremento | 2 650 | 32 37 | 72.3 78.6 | - 6.7 - 0.2 | 101 101 | 18 : | 58 53 42 | 28 4 37 | 0.00 1 0.00 | 0.00 | . 0.00 i 0.00 i | 0. 0 0. 0 | 0 | 29 31 | 1 | | W. SW. | Do. H. D. Jerrett. |
| ilroy | Santa Clara | 193 | 36 | 70.2 | $\begin{array}{c c} + 1.4 \\ + 2.2 \end{array}$ | 105 | 18 | 55 | 2† | 0.00 | 0.00 | 0.00 | 0.0 | 0 | 31 . | U | 0 ; | RP. | Southern Pacific Co. |
| Gold Run | Placer | 3, 222 | 11 | 77.2 59.1 | +2.2 - 0.8 | 98 85 | 9† 5† | 46 45 | 4 30 | 0.00 .: 0.00 | 0.00 | · 0.00 | 0, 0 0, 0 | | . 27 . 29 | 2 | 2: | n. | Do. Do. |
| ionzales irass Valley ireenville | Nevada | 2,690 | 38 | 75,0 | | 99 | | 41 | 4 34 | 0.00 0.35 | - 0.04 | 0.00 | 0.0 | 0 | 30 | 1 | 1) | sw. | F. R. Hull. |
| iroveland | Tuolumne | 12.828 | , 1 | 74.8 | + 1.4 | 100 98 | 20 | 33 37 | | | | | 0. 0 0. 0 | | 23 | 8 | 0. | sw. | H. S. Richardson. |
| luinda | Yolo | 350 | 12 | 89.4 | + 1.9 | 108 | 10 | 80 | 4 44 | 0.00 | | 0.00 | 0.0 | | 29 | | | | |
| Hanford Healdsburg | Sonoma | 110 | | 68. 1 | +1.3 | 100 | 6† | 42 | 21† 52 | -0.00 | i- 0.07 | 0.00 | 0.0 | 0 - | | | | | John Fayour. |
| Hearst Heberi | | | 4 | 72.8 | | 104 118 | 7 7† | 48 60 | 1† 52 2 : 50 | i T | | 0.01 T. | 0.0 | 1 0 | 29 26 | 3 | $\frac{0}{2}$: | | H. D. Ellmaker. E. T. Chumard. |
| Hollister Hornbrook | San Renita | 994 | . 36 | 64.0 | — 3.2 i | 94 | 20 i | 42 40 | 2 45 13 | 0.06 | + 0.05 | 0.06 | 0.0 | 1 | 29 . 31 | 0 | 0 | w. | J. N. Thompson. Southern Pacific Co. |
| Hot Springs | Tulare | : 3,300 | 22 3 | 76. 2 | -16.7 | 98 99 | $\frac{111}{22}$ | 43 | 4 38 | 0.01 | | 0.01 | 0.0 | 1 | 30 | 0. | 1 . | | U. S. Forest Service. |
| Hullville (near) | Lake | 2, 250 | 9 | | | 102 98 | $\frac{9}{21}$ | 46 1 44 | 3 43 1 46 | 0.05 | | 0.05 0.31 | 0.0 | 14 | 18 . 20 : | 13 . | 0 | sw. sw. | John Duggan. Earl Powers. |
| ndependence | Riverside Inyo | 3,907 | 14 | 77. 9 | - 0.6 - 1.1 | 102 | 9 | 48 | 4 41 | 0.27 | + 0.16 | 0.18 | 0.6 | i <u>2</u> | 21 23 | 8 j | 2 . | | |
| [nskip | Riverside | 4,975 | 32 | 93.4 70.3 | - 1.1 | 117 94 | 7†: 9 | 65 : 40 | 9 38 | | 0.00 | | 0. 0 0. 0 | ö | 24 24 | 8 : | 0. | nw. | Cal. Gas & Electric Co. |
| one | Amador | 287 | 32 29 | | | | | • • • • • | | | | ;; | | | | | | | Southern Pacific Co. |
| Jamestown | Tuolumne | 1,471 | 7 | 77.6 | | | 19 | 45 | 2† 41 | 0.65 | | 0.05 | 0.0 | | 29 | 2 | 0 | | Sierra Ry. of California. |
| King CityLa Porte | Monterey | 333 | 23 16 | 68. 2 64. 9 | $\begin{array}{c} + \ 1.2 \\ + \ 2.4 \\ + \ 2.7 \end{array}$ | 102 92 | 6 | 40 33 | 5 57 4† 45 | 0.00 T. | - 0.00 - 0.25 | 0.00 T. | 0. 0 0. 0 | 0; | 31 30 | 0 | 0 0 i | n. : | Southern Pacific Co. C. W. Hendel. |
| Le Grand | Merced | 255 | 10 | 81.1 | + 2.7 | 111 . | 21 | 46 | 4 44 | 0. 20 T | - 0.25 + 0.20 - 0.01 | 0.20 | 0.0 | 0 | 31 26 | 2 | 0 , | | Santa Fe Co. G. W. Sandidge. |
| Lemon CoveLick Observatory | Santa Clara | 4, 209 | · 10 : 21 | 70.5 | +0.8 + 1.1 | 112 88 | 207 18 | 48 39 | 4 47 3† 23 | 0.04 | + 0.04 | T. 0.03 | 0.0 | 2 | 20 23 | 8 | 0 | sw. nw. | The Director. |
| Livermore | Alameda | 485 | : 39 | 73.4 | | 104 | 1. | 45 | 2 42 | | | 0.00 | | | 30 | ·i | . | | E. G. Still. Ezra Fiske. |
| | ыми вомуции | 40 | ₽ 0 | 10. 2 | - 0.0 | 101 | ±U | - 70 | 2 . 43 | (), (ii) | V. (#/ | 3.00 j | U | | 47, | • • | W) | . | ment to a security |

MONTHLY WEATHER REVIEW.

Table 1.—Climatological data for July, 1910. District No. 11—Continued.

| Fig. Propertions December Dec | | T_ | ABLE | 1.—(| L'limate | ological | data | for . | July, | 1910 | • | Distri | ict No. | 11—(| ontii | nue | i. | | | | |
|--|--------------------------------|------------------|------------------------|------------|----------------|-------------------------------|-----------|--------------|-----------|------------|------------|-----------|-------------------------------|----------------|--------------------------|------------|----------|------------------------------------|---------------------------|------------|---|
| Conflored County do | | İ | į | Y. | Temp | erat ure, | in de | grees | Fabi | ren hei | t. | Preci | pitation, | , in inc | ches. | dayı | | Sky. | | tlon. | |
| See Plane | Stations | Counties. | Elevation, feet. | ; % | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | range. | Total. | Departure from the normal. | ່ ⊈ | Total snowfall unmelted. | " _ | | Number of part- ly cloudy days. | Number of cloudy days. | | Observers. |
| 28 August | | Inyo | 2,728 | 5 | | | | 9† | | | | | | | | | | 14 | | | G. F. Marsh. |
| Section Sect | Long Valley | Lassen | i 293 | 33 | 70.2 | + 2.8 | 93 | | 54 | 14 | | 0.04 | | 0.01 | | i 1 | . 19 | | | | U. S. Weather Bureau. |
| Color Colo | Los Banos | Merced | 121 | 23 | 77.8 67.8 | -3.7 + 0.1 | 104 96 | | 60 | | 45 | | | 0.00 i | | | 27 27 | | 4 | w. | Southern Pacific Co. |
| Magniture Particol 1.27 5 1.4 1.6 1.0 1. | Lytle Creek | San Bernardino | 2,900 | 1 | 73.4 | | 103 | 20 | 40 | . 3 . | 45 | 0.00 | | 0,00 | 0.0 | . 0 | ! | ! | | | W. E. Anderson. |
| Memorati Tank Imperial 25 25 25 25 25 25 25 2 | Madeline | Lassen | 5, 270 | ii | 65.4 | | 92 | 7†: | 37 | · 1 : | 52 | 1.63 | | 0.63 | 0.0 | 5 | 22 | 6 . | 3 | w. | J. H. Williams. |
| Marcel M | Mammoth Tank | Imperial | 2, 321 | 32 | 91.6 | - 6.9 | 119 | 20 | 67 | 14 | 41 | 0.76 | | 0.76 | 0.0 | 1 | 17 | . 11 | 3 | w. | Southern Parific Co. |
| Merced. 15 | Mecca | Riverside | -185 | 4 | 91.6 | | 114 | 20 | 65 | · 2 i | 41 | 0.00 | | 0,00 | 0.0 | 0 | 23 | 6 | 2 | se. | A. Lunsted. |
| Mill Cores (1) | | | | | | - 0.2 - 4.3 | 88 104 | 5† 21 | | | | | | | | | | | | | |
| Medellame Mill. Calavera. 1.50 15 17 72 17 18 18 18 18 18 18 18 | Mill Creek (1) | Amador | | . 3 | 71.4 | | 94 | 14† | 42 | 11 | 40 : | 0.00 | | 0.00 | 0.0 | | 29 | 1 | 1 - | n. | · Cal. Gas 🌢 Electric Co. |
| Moelengame Hill. Calaveras. 1.550 17 7.2 + 1.4 10 18 25 3 43 T. 0.04 0.0 0.0 0.0 2 2 0 C. E. Princile. Moeletagum. Shistyon. 4.560 27 25 0.05 0.05 0.05 0.0 | Modesto | Stanislaus | . 90 | 38 | | + 3.0 | | | | i | ; | | | Ť. | | | | | | | Southern Pacific Co. |
| Montagrow Saletyen 2.499 22 16 2.4 16 17 25 71 26 27 27 27 27 27 27 27 | Mokelumne Hill | Calaveras | 1,550 | 17 | | | | | | | | | 0.00 | | | | | 2 | 0 | | . C. E. Prindle. |
| Manuschalajana Manu | Montague | Siskiyou | 2,450 | 22 | | | | | | 4 . | 40 | | | | | | ۱ | | | | G. H. Chambers. |
| Manuschalajana Manu | Monterey | Monterey | | 11 | 79.6 | +2.6 + 3.4 | 104 | 20 | 58 | | | 0.07 | | 0.07 | 0.0 | 1 | 20 | 9 | 2 . | nw. nw. | Southern Pacific Co. John C. Knecht. |
| Name Color Same | Mount Tamalpais | Marin | 2,375 | 11 | | | | | | 16 3 | 52 i 29 | | - 0.01 | | | | 30 27 | 3 | | nw. | G. F. Morgan. U. S. Weather Bureau. |
| Nelles (City | Napa City Napa (S. H.) | Napa | 20 | 33 32 | 63.8 | -2.0 + 0.8 | 98 | 6 | 43 | 2 1† | 48 43 | 0.00 | - 0,01 - 0,01 | 0,00 | 0.0 | 0 | 29 | · 2 | 0 | s. | : Thomas Hull. |
| Nevrala (11.4) Nevrala (12.4) Newhall (12.4) Newhal | Needles | San Bernardino | 477 | 18 | | + 1.6 | | | | 6 | 34 | 0.44 | + 0.02 | | | | 27 | | 4 - | | Santa Fe Co. |
| Newshit 100 10 | Nevada City | Nevada | . 2, 580 | 18 | | + 2.8 | | | | | | | | | | | | | | | S. W. Marsh. |
| Number Surfect Surfe | Newhall | Los Angeles | 1,200 | 33 | 74.2 | - 2.4 | 110 | 20 | 55 | 2 | • | -0.00 | 0.00 | (), (R) | 0.0 | 0 | 31 | 0 ; | 0 | se. | Southern Pacific Co. |
| North Bloomfield. Nevadia. 3, 200 13 North Bloomfield. Stantisham. 156 157 157 157 157 157 157 157 | NewmanNimshew | Butte | 2,500 | 6 | | | | | | | | | | | | | | | | n. | Cal. Gas & Electric Co. |
| Okclaide Stanblaus 159 18 74.4 -1.3 104 84 54 54 0.00 0.00 0.0 10 2 0 0 0 0 0 0 0 0 | North Bloomfield North Fork | Nevada Madera | 3,200 3,000 | 13 | | | | ! | | | | | | | | | | <u> </u> | | | W. G. Shand. G. H. Shinn. |
| Cocanded San Diego | Oakdale | Stanislaus | 156 | 16 | | | | 8† 5 | 54 51 | 4 3† | 29 | | | | | | | | | | Southern Pacific Co. |
| Spread S | Oceanstde | San Diego | 900 | | ! | | | | | | | | | | | | | | | | H. D. Brodie. |
| Spread S | Orland | Glenn | 254 | 28 | 81.2 | - 5,2 | 113 | 8 | 50 | 3 | 46 | 0.00 | - 0.02 | 0.00 | 0.0 | 0 | 31 | 0 | 0 : | se. | W. W. Patch. |
| Pam Springs Riverside 584 21 92.1 -5.6 112 6 78 2 0.89 0.7 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.8 0.7 0.8 0.8 0.7 0.8 0 | Oroville (near) | Butte | . 250 | 26 | 79.5 | - <u>1.8</u> | 108 | 8 | 50 | 4 | 47 | 0.00 | - 0.03 | 0.00 | 0.0 | . 0 | 26 | . 4 i | 1 | N. | E. D. Fairchild. |
| Penstock Camp. Tuolunne. 3,780 3 78.0 1.0 38 10 48 41 23 0.00 - 0.00 0.00 0.0 2 0.0 2 w. Tuolunne V. P. Co. Placerville. S. Doradotso C. S. P. Co. Placerville. S. Doradotso C. S. P. Co. Placerville. S. Doradotso C. P. Co. Point Reyes . Marin. 490 18 82.0 - 1.7 64 5 45 7 7 7 T 0.10 T. 0.0 10 7 0.0 0 2 5 2 0 mw. Point Reyes . Marin. 490 18 82.0 - 1.7 64 5 45 7 7 7 T 0.10 T. 0.0 10 7 0.0 0 2 5 2 0 mw. Point Reyes . Marin. 490 18 82.0 - 1.7 6 4 5 45 7 7 7 T 0.10 T. 0.0 0 0 2 5 2 0 mw. Point Reyes . Marin. 490 18 82.0 - 1.7 6 4 5 45 7 7 7 T 0.10 T. 0.0 0 0 2 2 4 0 w. U. S. Weather Bureau. Potential Fragments . Marin. 490 18 82.0 - 1.7 6 4 5 45 7 7 7 T 0.10 T. 0.0 0 0 2 5 2 0 mw. Point Reyes . Marin. 490 18 82.0 - 1.7 6 4 5 45 7 8 7 7 7 T 0.10 T. 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Palm Springs | Riverside | 584 | 21 | 92.1 | — 5 6 | 112 | 6 | 76 | 2 | ' | 0.80 | +0.77 | 0.80° | 0.0 | 1 | . 23 | . 5 | 3 | w. | Southern Pacific Co. |
| Penstock Camp. Tuolunne. 3,780 3 78.0 1.0 38 10 48 41 23 0.00 - 0.00 0.00 0.0 2 0.0 2 w. Tuolunne V. P. Co. Placerville. S. Doradotso C. S. P. Co. Placerville. S. Doradotso C. S. P. Co. Placerville. S. Doradotso C. P. Co. Point Reyes . Marin. 490 18 82.0 - 1.7 64 5 45 7 7 7 T 0.10 T. 0.0 10 7 0.0 0 2 5 2 0 mw. Point Reyes . Marin. 490 18 82.0 - 1.7 64 5 45 7 7 7 T 0.10 T. 0.0 10 7 0.0 0 2 5 2 0 mw. Point Reyes . Marin. 490 18 82.0 - 1.7 6 4 5 45 7 7 7 T 0.10 T. 0.0 0 0 2 5 2 0 mw. Point Reyes . Marin. 490 18 82.0 - 1.7 6 4 5 45 7 7 7 T 0.10 T. 0.0 0 0 2 2 4 0 w. U. S. Weather Bureau. Potential Fragments . Marin. 490 18 82.0 - 1.7 6 4 5 45 7 7 7 T 0.10 T. 0.0 0 0 2 5 2 0 mw. Point Reyes . Marin. 490 18 82.0 - 1.7 6 4 5 45 7 8 7 7 7 T 0.10 T. 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Pasadena | Los Angeles | . 800 | 23 | 69.4 | $+2.4 \\ -3.1$ | 109 | 21† | 36 | 3 | 59 | 0.00 | 0.00 | 0.00 | 0.0 | | 31 | 0 | 0 | | E. R. Sorver. Dr. F. W. Sawyer. |
| Placerville | Peachland | Sonoma | 3.750 | | | | 95 98 | 10 | 39 48 | 2 4† | 53 28 | | — ი.01 | | | | 19 29 | 12 | | | Tuolumne W. P. Co. |
| Point Reyes | Placerville | El Dorado | 1.875 | 21 | 73.9 | +1.2 | 100 | 81 | 42 | 4 | 44 | 0.00 T | _ 0.01 | 0,00 : T | 0,0 | | 27 | : 4 7 i | | | A. Baring Gould. |
| Recting Car State Control | Point Reyes | Marin | 490 | 18 | 52.0 | — 1.7 | 64 | 5 20+ | 45 | 7 | 17 | Ť. | - 0.10 | Ť. | 0.0 | 0 | 6 | 5 | 20 | nw. | . II S Weather Bureau |
| Recting Car State Control | Quincy | Plumas | 3,400 | 15 | 66.0 | + 0.1 | 97 | 81 | 33 | 4 | 54 | 0.00 | - 0.08 | 0.00 | 0.0 | 0 | 29 | 2 | 0 | sw. | D. N. Rogers. |
| Recting Car State Control | Redding | Shasta | 552 | 35 | 82,6 | + 0.3 | 108 | 81 | 55 | 4 | 35 | T. | - 0.09 | T. | 0.0 | . 0 | 30 | 1 | 0. | n. | L. F. Bassett. |
| Riverside | Reedley | Fresno | 347 | 10 | 82.4 | -0.7 + 0.2 | 109 | | 49 | | | 0.00 | 0.00 | 0.00 | 0.0 | | 29 | : <u>0</u> | | | Santa Fe Co. |
| Rockin Placer 249 39 75.7 -4.3 106 18 45 47 0.00 -0.03 1.00 0.0 0.2 3 3 se. | Riverside | Riverside | 851 | 28 | 77.0 | + 0.7 | 107 | | 49 | 2† | 34 50 | 0.00 | - 0.62 | 0.00 | 0.0 | | 21 | | 1 | w. | C. W. Barton. |
| Sacramento (2) do | Pohnovyilla | Humboldt | 75 | 7 | 75. 7 57. 2 | | 73 | 8 | 43 | 5 | 24 | 0.00 | | 0,00 | 0.0 | | 19 | 9 | 3 | | Dr. R. Callaban. |
| 88. Helena Napa 255 2 69.4 105 20 41 27 56 0.00 0.00 0.00 0.00 0.05 0.00 1. | Sacramento (1) | Sacramentodo | . 35 | 33 57 | | $-0.2 \\ -2.2$ | 101 98 | 18 19† | | | | | | | | | 25 | | | | U. S. Weather Bureau. S. H. Gerrish. |
| San Bernardino 1,064 18 78,0 + 3.0 111 21 44 5 57 0.05 + 0.01 0.05 0.0 1 18 13 0 sw. Dr. A. K. Johnson. San Diego 93 39 67,0 - 0.1 82 6 55 4 19 0.01 0.00 0.01 0.0 1 10 10 | St. Helena | Napa | 255 40 | | | | 105 82 | 20 | | 2† 5 | 56 38 | | 0.00 | | | | | | | | B. F. Kettlewell. |
| San Francisco | San Bernardino | San Bernardino | 1,054 | 18 | 78.0 | +3.0 | 111 | 21 | 44 | 5 | 57 | 0.05 | + 0.01 | 0.05 | 0.0 | 1 | . 18 | 13 | - 0 | sw. | Dr. A. K. Johnson. U. S. Weather Bureau. |
| San Leandro. Alameda. 48 15 63.2 0.00 88 5 42 3 41 T. 0.00 T. 0.0 0 19 9 3 nw. U.S. Weather Burvau. San Mateo. San Mateo. 22 36 68.4 + 3.0 88 6 58 3† 0.00 0.0 | San Francisco | San Francisco | 207 | 39 | 56.4 | - 0.9 | 76 | 5 | 48 | 7 | 25 | T. | - 0.02 | Т. | 0, 0 | 0 | 15 | 11 | 5 | w. | Do. |
| San Mateo San Mateo San Mateo San Mateo San Miguel San Luis Obispo 616 23 81.1 + 6.1 103 20 55 13 0.00 0.00 0.00 0.00 0.0 0 20 0 1 nv. Southern Pacific Co. San Miguel Santa Barbara 500 Santa Barbara 500 Santa Barbara 130 26 65.1 0.0 84 20 49 4 31 0.02 0.00 0.00 0.00 1 25 6 0 George W. Russell. Santa Clara Santa Clara 90 21 65.2 + 2.2 91 6 40 2 46 T. 0.00 T. 0.0 0 29 1 1 nv. Santa Clara Santa Clara 90 21 65.0 + 2.2 91 6 40 2 46 T. 0.00 T. 0.0 0 29 1 1 nv. Santa Clara College. Santa Magarita Santa Cluz 20 27 61.0 - 2.9 90 18 42 11 40 0.00 - 0.01 0.00 0.0 0 25 1 5 s. W. R. Springer. Santa Magarita Santa Barbara 220 22 69.1 + 4.7 84 30 53 27 24 T. 0.00 T. 0.0 0 29 0 2 av. L. E. Blochman. Santa Monica Los Angeles 110 25 61.8 - 8.1 78 77 47 4 24 T. 0.00 T. 0.0 0 29 0 2 av. L. E. Blochman. Santa Rosa Sonoma 181 24 64.4 - 3.1 95 6 40 2 49 0.00 - 0.00 0.00 0.00 0.0 23 8 0 sv. M. L. McDonald, ir. Selma Presno 311 24 85.4 0.0 106 18 65 37 0.00 0.00 0.00 0.0 0 23 1 0 0 nv. Southern Pacific Co. Shasta Shasta L. Los Angeles 1,400 13 74.4 + 2.2 104 21 51 4 38 0.02 + 0.01 0.02 0.0 1 27 3 1 nv. N. D. Ingham. Sharta Shasta | San Jose | Santa Clara | 95 | 35 | | T 1.4 | | | | | | | | | | | | | | | U. S. Weather Bureau. |
| Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Clara Santa Magarita Santa Magarita Santa Barbara Santa Maria Santa Barbara Santa Maria Santa Barbara Santa Maria Santa Maria Santa Barbara Santa Maria | San Luis Obispo | San Luis Obispo | 201 | 15 | | 0,00 | | | 42 | 3 | 41 | т. | | | | | | | | | U. S. Weather Bureau. |
| Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Barbara Santa Clara Santa Magarita Santa Magarita Santa Barbara Santa Maria Santa Barbara Santa Maria Santa Barbara Santa Maria Santa Maria Santa Barbara Santa Maria | San Miguel | San Luis Obispo | 616 | 36 23 | | +3.0 + 6.1 | 88 103 | 20 | 58 55 | 3† . 13 | | 0.00 | | 0.00 | 0.0 | | | | | nw. | Do. |
| Santa Barbara Santa Barbara 130 26 65.1 0.0 84 20 49 4 31 0.02 0.00 0.02 0.0 1 25 6 0 George W. Russell. | San Miguel Island | Santa Barbara | 500 371 | 21 | | | | - · · · · | | | | | | | | | | | : | | Capt. W. G. Waters. Southern Pacific Co. |
| Santa Crus Santa Crus 20 37 61.0 -2.9 90 18 42 17 40 0.00 -0.01 0.00 0.0 0.25 1 5 s. | Santa Barbara | Santa Barbara | . 130 | 26 | | 0.0 + 2.2 | | | | 4 2 | | | | 0.02 T | | | 25 29 | | | | George W. Russell. |
| Santa Monica Los Angeles 110 25 61.8 -8.1 78 77 47 424 T. 0.00 T. 0.0 0.1 23 8 1 w. N. D. Ingham Santa Ross Sonoma 181 21 44.1 -3.1 95 61.40 249 0.00 -0.09 0.00 0.00 0.0 0.23 8 0 w. N. D. Ingham N. M. McDonald, ir. Selma Selma Shasta Shast | Santa Crus | Santa Cruz | . 20 | 37 | 61.0 | - 2.9 | 90 | 18 | 42 | 1† | 40 | 0.00 | -0.01 | 0.00 | 0.0 | 0 | 25 | 1: | 5 | s. | W. R. Springer. |
| Selma Fresno 311 24 85.4 0.0 106 18 65 3† 0.00 <td>Santa Maria</td> <td>Santa Barbara</td> <td>. 220</td> <td>22</td> <td>69.1</td> <td>+ 4.7</td> <td>84</td> <td>30</td> <td>53</td> <td>2†</td> <td>24</td> <td>Ţ.</td> <td>-0.02</td> <td>т.</td> <td>0.0</td> <td>0</td> <td>29</td> <td>0 :</td> <td>2</td> <td>sw.</td> <td>L. E. Blochman.</td> | Santa Maria | Santa Barbara | . 220 | 22 | 69.1 | + 4.7 | 84 | 30 | 53 | 2† | 24 | Ţ. | -0.02 | т. | 0.0 | 0 | 29 | 0 : | 2 | sw. | L. E. Blochman. |
| Sierra S | Santa Rosa | Sonoma | . 181 | 21 | 64. 1 | — 3.1 | 95 | 6 ; | 40 | 2 | 49 | 0.00 | -0.09 | 0.00 | 0.0 | 0 | 23 | - 8 | 0 | sw. | M. L. McDonald, jr. |
| Sierra S | Shasta | PresnoShasta | 1,049 | 24 14 | 80.8 | - 0.9 | 115 | 9 | 45 | i 1† | | T. | -0.01 | Т. | 0.0 | 0 | 27 | : 3 | 1 : | nw. | Dr. T. J. Edgecomb. |
| Siskiyou | Sierraville | Los Angeles | . 1,400 . 5,000 | 13 | 64.9h | | i 97 | 9 | 35 | 23 | 56 | 0.09 | | 0.09 | 0.0 | 1 | 27 | 2 | 2 i | sw. | C. D. Johnson. |
| Sonora | Sisson | Monterev | .! 188 | 36 | 66. 3 | - 3.4 | 94 | 9 19† | | 4 | 50 | 0.00 | | | 0.0 | | 30 | 1 | 0 i | 8. | Southern Pacific Co. |
| String City Butte 3,525 6 Butte County R. R. Co. Stockton (S. H.) San Joaquin 23 39 73.3 + 0.7 101 8† 48 4 39 0.00 - 0.02 0.00 0.0 0 31 0 0 nw. State Hospital. Storey Madera 296 10 79.6 + 1.8 109 21 45 3 47 0.00 0.00 0.00 0.0 0 30 0 1 nw. Santa Fe Co. Suisun Solano 20 30 0 Southern Pacific Co. | Southeast Farallon Sonora | San Francisco | 1, 825 | 7 22 | 52.2 | | 58 | 10 | 48 | 7 | | 0.03 | | 0.01 | 0.0 | 3 | 6 | 4 | 21 | nw. | U. S. Weather Bureau. |
| Suisun Solano 20 30 Southern Pacific Co. | Stirling City | .! Butte | . 3, 525 | 6 | ļ | i | | ¹ | ' | ' | : | | | | | ١ | ١ | | | | Butte County R. R. Co. |
| Summerdale | Storey | Madera | 296 | 10 | | ¥ 1.8 | | | | | | | | | | | | | 1 (| nw. | Santa Fe Co. |
| tari da la companya da la companya da la companya da la companya da la companya da la companya da la companya d | Summerdale | Mariposa | 5, 270 | 14 | 69.4 | + 0.9 | 98 | 22 | 38 | | 40 | 0. 29 | + 0.26 | 0.15 | 0.0 | 3 | 21 | 7 | | | J. H. Lowry. |

TABLE 1.—Climatological data for July, 1910. District No. 11—Continued.

| Stations. | Counties. | Elevation, feet. | Length of record, yrs | Mean. | Departure from true the normal. | Highest. | Date, | Fowest. | : | Greatest daily 7 | Potul, | Departure from prid | Greatest in 24 ur hours. | Total snowfull squared. | Number of rainy day .01 inch or more. | Number of clear days. | ly cloudy days. | cloudy days. Prevailing wind direction | Observers. |
|---|--|---|--|---|--|--|---|--|---|--|---|--|--|--|---------------------------------------|---|---|---|------------|
| arner Springs asson ville estley heatland illows **, b, c, etc., indic ** Precipitation ine ** Temperature ext † Also on other da \$ Separate dates o \$ Data are from st § Instruments are Estimated by ob Precipitation for | Alpine Kern Tehama Tulare Placer San Josquin Mendocino San Bernardino Lake Solano Calveras Tulare San Diego Kern Santa Cruz Stanislaus Yuba Glenn Mariposa ate, respectively, 1, 2, 3, luded in that of the next remes are from observed tes. falls not recorded. andard instruments not read in the morning; the | 7, 017 4, 175 8, 000 3, 964 620 870 3, 704 620 1, 750 1, 350 1, 350 87 334 3, 165 336 3, 945 3, 945 etc., da measure readin, supplice | 37 21 4 33 33 39 24 21 22 21 22 21 22 21 23 31 6 | 63.0 71.0 59.5 77.5 79.7 71.0 77.7 73.1 74.0 74.3 77.4 59.0 82.3 76.5 77.8 the dry | + 0.9 + 1.2 - 2.1 - 3.6 - 2.5 - 4.3 - 0.8 - 0.7 - 5.1 - 5.1 - S. Weatlure then | 98 98 83 96 108 98 102 109 104 105 109 106 106 105 105 105 105 105 105 105 105 105 105 | 91 94 94 94 94 94 94 94 94 94 94 94 94 94 | 29 41 31 61 41 42 45 46 40 60 40 40 40 40 40 40 40 40 40 40 40 40 40 | 5 4 5 2 4 4 4 15 14 15 14 15 14 15 14 14 15 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | 46 44 41 45 44 45 46 49 39 43 39 43 | 1, 16 0, 41 1, 90 0, 06 0, 00 0, br>0, 00 0, r>0 0 | 0,00 - 0,03 - 0,00 - 0,00 - 0,01 - 0,01 - 0,01 - 0,01 | 0. 98 0. 14 1. 50 0. 00 0. 00 0. 00 0. 00 0. 00 0. 00 0. 00 1. 30 0. 00 T. 0. 00 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 215210 | 26 22 22 22 25 25 31 27 16 30 16 31 5 22 28 29 | 0 1 2 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | sw. sw. sw. sw. sw. nw. nw. nw. sw. nw. sw. | |

Table 2.—Daily precipitation for July, 1910. District No. 11, California.

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| Stations. | River basins. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | , , | .1 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |) 2 | 1 2 | 2 2 | 3 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Oregon. | | | | | | <u> </u> | | † ! | İ | Ţ | T | ÷- 1 | Ť | - | | | i I | ; : | İ | | | Ì | Ť | Ì | Ť | Ť- | | T | Ì | 1 | Ť | † | i – |
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July, 1910.

Table 2.—Daily precipitation for July, 1910. District No. 11—Continued.

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TABLE 2.—Daily precipitation for July, 1910. District No. 11—Continued.

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| marack | Sacramento | | | | | | | | | | | ٠. | | | | | | | T. | . 40 | 1.5 |) | | | | | | | | | | | | |
| nachapihama | San Joaquin | | | | | | | ٠٠ | <i>.</i> | | | ٠. | | | • • • • | | | | | | • • • | | • • • • | | | | | | • | ٠ | | | | |
| rec Rivers | San Joaquin | . . | | | | | | . | . . | | | | | | | | . . | | 03 | 21.04 | | | | | | | | | | | | | | |
| n·la | Secremento | | | | | | | | | | | | | | | | | | | | | | | | | | | | - 1 | | | | | |
| kcy | San Joaquindo | | | • • • • | • • • • | | | | • • • • | | | ٠. | •••• | | • • • • | • • • • | · · · · | | · · · · · | | ••• | | | | • • • • | • • • | | -:- • | | ٠.,- | • • • • • | • • • • | • • • • | ٠. |
| stin (near) | Coast | | | | | J | | | | :::: | | | | | | | | | | т. | Ť. | | . . | | | : : : | | | : :: | | | | | • • ! |
| ah | do | | 4 | | | | · | | | | | ٠. | | • • • | | • • • | | | | .ļ | | · · • • | | | | | | | •- | ٠ | | | | · - |
| | do | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 2.—Daily precipitation for July, 1910. District No. 11—Continued.

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|-------------------------------|---------------------------|----|-----------|---|-----|--------|---|---------|---|-----------|------|-----|------|----|------|-----------|------------|------|-----|-----------|-----|-----|-----|-----------|---------|-------|-----------|----|-----------|---------|----|
| ~ | | | | | | | | | | | | | | | Day | of r | nont | h. | | | | | | | | | | | | i | |
| Stations. | River basins. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 1 | .0 1 | 1 1 | 2 13 | 14 | 15 | 16 | 17 | 18 | 9 2 | 20 2 | 1 2 | 2 2 | 3 2 | 1 25 | 26 | 27 | 28 | 29 | 30 | 31 | E |
| lifornia—Cont'd. er Matole | Coast | _: | : | | , : | | | | | | | | | - | | | | | | ļ | | | | | | : | i | | | | _ |
| wille | Sacramento | | | | | , . | | | | ! | | | | | | | | | | , | | | | | | | | | | | |
| ey Springs | San Joaquin Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| lia | San Joaquin Coast | | | | , | | | | | | | | | | i | · · · · · | • | | | Λ2 | | | : | | | n | 44. | | | ••• | |
| | San Joaquin | | | | | | | | | | | | | | | | . . | | | والموادة | | | | | | | | | | | |
| onvilleverville | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| chpec | Klamath | | · · · · · | | | - | | : . | | | | | ; | | | | | | | ٠٠٠)٠٠ | | | | | | ·j | | · | | ; . | |
| | Sacramento San Joaquin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point | do | | | ļ | , ; | | | | | | | | | | . T. | | | | | | | | | ; | | | | | | | |
| | Coast | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | dodo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| mite | San Joaquin | | | | | | | | | | | | | | | . | | | | | | | | • • • • • | | | | | | | |
| api | Coast | | • • • • • | | | | | • • • • | | • • • • • | | | | | | | | •••• | | • • • • • | | | | • • • • • | • • • • | | · • • • • | | • • • • • | • • • • | ٠, |

TABLE 3.—Maximum and minimum temperatures at selected stations, July, 1910. District No. 11, California.

| | | | | | | | (axim | - | | | | * | | | Califo | | <u>.</u> | <u></u> | | | | · - · - · | | | | | | |
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| | | Lakeview, Oreg. | | Alturas. | : . ! , | Barstow. | | Branscomb. | | Brawley. | | Coluss. | | Eureka. | ! | Fresno. | | Independence. | | Los Angeles. | Mount Tamal- | | , | Nevada City. | . officers | Forterville. | 3110 P-0 | Ked Bluff. |
| Date. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 2 3 4 5 | 80 85 97 86 89 | 25 30 32 20 30 | 82 82 77 75 88 | 39 40 45 45 33 | 100 99 94 94 97 | 60 62 57 67 55 | 66 69 70 76 85 | 38 39 44 46 46 49 | 104 106 104 106 108 | 62 66 75 72 72 | 83 84 78 84 90 | 60 58 53 48 64 | 59 58 58 59 60 | 53 52 52 51 50 | 90 91 78 83 94 | 56 57 55 51 57 | 90 92 86 82 88 | 52 57 60 48 53 | 75 74 73 77 87 | 55 58 59 55 57 | 70 65 56 67 79 | 53 44 42 47 60 | 85 80 70 82 88 | 42 41 43 35 42 | 93 94 91 94 95 | 54 55 50 48 47 | 87 84 75 85 93 | 61 60 56 54 63 |
| 6 7 8 9 0 | 94 94 90 87 89 | 40 38 29 27 28 | 91 97 95 99 98 | 40 43 52 52 49 | 104 106 109 108 110 | 63 63 64 65 68 | 89 94 100 95 82 | 48 55 60 65 52 | 113 114 109 111 111 | 75 80 72 70 79 | 95 101 105 105 101 | 75 74 75 77 74 | 59 58 62 60 58 | 52 51 49 51 51 | 101 105 106 108 101 | 64 69 70 74 68 | 95 98 101 102 99 | 56 59 60 65 68 | 93 90 1 77 75 | 64 61 56 59 57 | 85 85 91 83 76 | 67 73 75 54 53 | 95 97 98 100 97 | 46 50 51 55 57 | 106 106 107 109 104 | 59 63 66 70 | 98 105 11) 111 9 ; | 65 68 74 80 72 |
| 1 2 3 4 5 | 90 92 96 94 98 | 28 23 27 36 36 | 98 97 100 91 89 | 51 49 48 46 44 | 108 108 112 97 98 | 69 69 65 70 70 | 92 94 1 88 1 78 78 | 52 53 52 50 46 | 112 110 104 95 98 | 70 70 87 78 78 | 94 96 97 93 91 | 69 66 61 60 59 | 59 58 57 56 59 | 51 50 50 52 | 104 104 104 102 98 | 64 65 66 60 59 | 100 97 94 88 91 | 66 63 62 70 58 | 74 78 73 73 82 | 56 56 56 54 58 | 79 81 72 57 69 | 62 63 57 44 44 | 97 97 95 90 88 | 50 49 51 55 46 | 104 106 110 107 101 | 63 63 63 66 59 | 100 100 100 93 88 | 68 70 68 67 58 |
| 6 7 8 9 | 98 97 96 100 96 | 31 40 32 42 24 | 94 95 95 99 90 | 38 40 51 54 54 | 103 106 105 107 110 | 69 75 70 71 73 | 85 89 93 97 95 | 50 42 47 65 62 | 105 106 106 106 110 115 | 79 78 82 81 82 | 96 99 102 103 103 | 67 76 73 78 75 | 58 53 60 63 60 | 52 50 47 50 52 | 102 102 107 106 110 | 65 71 78 78 76 | 93 90 90 94 98 | 62 62 59 66 63 | 85 91 92 85 89 | 63 66 64 65 65 | 79 84 93 89 90 | 65 68 78 78 77 | 96 97 98 98 100 | 47 53 58 63 59 | 103 105 108 110 111 | 65 67 72 73 75 | 98 103 105 107 105 | 63 63 71 77 78 |
| 1 2 3 4 5 | 97 90 91 90 92 | 27 40 36 39 40 | 92 86 94 94 96 | 54 46 42 45 50 | 110 108 103 106 105 | 70 74 70 69 68 | 88 84 91 90 88 | 58 46 51 52 53 | 106 105 99 102 104 | 81 85 78 77 72 | 102 102 98 96 93 | 72 66 66 69 55 | 59 59 60 58 58 | 53 51 51 52 51 | 110 105 104 100 96 | 76 71 65 64 66 | 98 99 99 97 90 | 65 64 68 65 67 | 92 81 78 79 82 | 63 61 63 60 62 | 86 82 78 75 72 | 69 64 67 63 53 | 98 95 98 94 92 | 57 48 46 48 49 | 111 106 105 100 98 | 73 69 60 64 69 | 105 99 102 100 99 | 75 70 69 65 65 |
| 6 7 8 9 0 | 93 95 94 100 101 97 | 29 31 36 45 46 43 | 93 92 91 92 93 93 | 54 48 48 48 46 44 | 104 105 106 105 107 106 | 67 69 70 69 70 69 | 88 85 87 88 88 88 | 52 51 50 49 48 45 | 102 104 104 108 109 100 | 82 75 73 97 91 77 | 92 91 89 94 93 87 | 68 64 59 63 62 64 | 57 53 58 55 55 55 | 51 50 49 51 50 51 | 100 100 99 101 101 97 | 72 70 64 65 67 63 | 92 88 92 96 96 96 | 66 64 59 62 63 64 | 77 76 75 76 77 77 | 60 62 61 60 60 60 | 77 72 72 76 73 72 | 65 59 58 64 66 55 | 93 94 94 95 95 91 | 54 50 49 52 50 47 | 103 103 101 102 104 101 | 66 66 65 64 64 60 | 96 95 93 98 98 92 | 66 65 63 63 66 60 |
| fns | 93.0 | 33.4 | 91.9 | 46.4 | 104.6 | 67.4 | 86.3 | 50.6 | 106. 2 | 77.3 | 94.7 | 66.1 | 58.4 | 50.9 | 100.3 | 66.0 | 93.9 | 61.9 | 80. 5 | 59. 9 | 76.9 | 61.2 | 93.1 | 49.8 | 103.3 | 63.3 | 97.5 | 66.5 |
| | | | | | : | | | _ | (- | | i · | | | - C | aliforn | | | | | | | | | | ı | | · | |
| | Date. | | - | Kedlands. | | Sacramento. | | San Diego. | | San Francisco. | | San Jose. | San Luis | Орівро. | | Santa Barbara | | Santa Kosa. | ! | Sisson. | : | Stockton. | | Summit. | = | Susanville. | | Yosemite. |
| | | | Max. | <u> </u> | Max. | τ | | Τ | Max. | _ | | ī | Max. | Ι | Max. | | Max. | <u> </u> | | | Max. | 1 | Max. | Min. | Max. | Min. | Max. | т |
| 2 3 4 | • | | 83 | 53 52 53 52 52 | 81 79 65 80 91 | 52 52 51 50 55 | 66 64 66 72 76 | 60 58 57 56 59 | 60 61 56 63 76 | 50 50 51 51 51 | 70 70 62 76 87 | 43 44 49 52 45 | 62 66 64 74 88 | 49 46 42 50 47 | 70 70 70 70 76 81 | 51 51 55 49 50 | 76 80 72 78 90 | 42 40 44 43 45 | 83 79 78 78 72 80 | 40 38 38 34 37 | 81 76 78 84 94 | 53 53 53 48 56 | 65 65 65 72 75 | 35 38 38 41 29 | 80 77 73 74 85 | 44 44 45 41 42 | 82 79 73 78 86 | 39 36 34 38 41 |
| 6 7 8 | | | 100 | 58 64 59 51 51 | 97 99 96 92 82 | 63 63 61 62 56 | S2 78 69 68 69 | 63 64 61 60 60 | 75 63 63 61 61 | 50 48 50 51 53 | 89 89 89 84 80 | 51 53 51 52 54 | 87 77 77 73 70 | 47 47 49 49 54 | 82 76 77 72 68 | 55 54 54 55 55 58 | 95 88 90 76 72 | 46 47 46 49 53 | 85 86 90 94 90 | 46 47 56 56 59 | 97 98 101 91 84 | 60 64 62 63 56 | 78 85 84 86 84 | 45 50 44 48 45 | 90 95 97 98 98 | 50 54 58 57 62 | 92 94 96 97 99 | 46 46 44 45 46 |
| 3 4 | | | 96 94 | 52 55 58 65 65 | 87 88 88 81 85 | 52 54 54 54 54 53 | 68 69 68 70 72 | 61 61 62 62 63 | 59 60 59 65 65 | 51 51 51 52 53 | 76 80 79 80 74 | 54 54 53 53 52 | 71 72 69 70 72 | 52 52 52 54 54 | 69 68 68 69 81 | 55 55 55 53 52 | 77 80 79 72 73 | 51 53 52 52 53 | 90 90 89 88 76 | 60 52 39 47 42 | 89 90 87 79 84 | 54 55 56 54 53 | 83 83 83 81 75 | 46 51 51 51 50 | 95 94 94 82 86 | 59 58 57 60 50 | 98 97 97 89 98 | 48 49 50 56 48 |
| 8 9 0 | | | 95 103 106 | 66 71 69 67 71 | 95 98 101 100 99 | 56 58 65 69 65 | 76 80 81 78 80 | 66 66 65 67 67 | 63 69 63 68 63 | 51 51 52 52 52 50 | 82 87 87 88 86 | 49 53 58 61 56 | 80 88 84 87 79 | 53 53 55 55 55 53 | 1 | 58 60 58 59 60 | 86 89 92 87 86 | " | 86 87 89 92 89 | 46 45 46 56 54 | 92 96 101 99 100 | 56 62 66 70 67 | 80 84 84 82 79 | 48 50 53 50 52 | 81 94 94 88 91 | 56 57 | | : ::::: |
| 3 4 5 | | | 93 89 92 | 69 65 59 59 74 | 97 92 92 84 87 | 56 55 53 53 | 75 68 68 69 70 | 63 62 62 62 62 | 59 65 62 58 61 | 50 52 51 51 52 | 77 85 85 74 80 | 53 46 48 49 53 | 78 79 72 75 66 | 52 53 51 54 53 | 83 73 1 74 73 73 73 | 58 58 58 57 57 58 | 83 87 83 74 75 | 50 42 43 52 50 | 83 89 90 90 89 | 48 47 46 42 43 | 95 93 92 90 88 | 65 60 58 58 56 | 80 78 80 82 84 | 58 50 48 51 | 91 90 92 94 95 | 51 50 56 | | : : : : |
| 8 9 0 | | . | 90 91 92 | 62 60 59 58 64 60 | 87 82 83 87 83 78 | 54 51 53 53 53 | 69 69 71 70 71 73 | 62 64 64 64 64 62 | 58 59 59 58 57 57 | 50 50 50 50 50 50 | 75 78 76 78 78 71 70 | 53 49 54 49 54 51 | 75 71 72 72 78 68 | 54 55 55 54 53 51 | 72 73 71 71 73 76 | 57 56 56 57 60 53 | 74 73 74 75 76 77 | 51 50 50 48 | 91 90 85 81 87 88 | 47 41 46 47 46 44 | 89 88 85 88 85 85 | 54 56 55 54 54 54 54 | | 49 51 46 43 38 41 | 88 90 91 92 91 89 | 56 52 57 55 | | |
| 1 | | | | | | | | | | | | | | | | 55.6 | | | | | | | | | 89.3 | | | |